2012 Groundwater Sessions

2012 Groundwater Sessions	# Oral
Title	Sessions
Dynamics of Fluids and Transport in Fractured Porous Media	2
Environmental Vadose Zone Hydrology	0
Exploring Environmental Impacts of Hydraulic Fracturing in the Subsurface	0
Groundwater-Surface Water Interactions: Dynamics Across Spatial and Temporal	2
Scales	2
Groundwater-Surface Water Interactions: Three Decades of Transient Storage	0
Analysis to Understand River Transport Watershed Connections	0
Hydrological, Geomorphological, Biological, and Geochemical Processes in Karst	0
Aquifers	0
Characterization of Groundwater Systems	2
Microorganisms, Colloids, Engineered Nanoparticles, and Emerging Contaminants	2
in the Environment	2
Shallow and Deep Geothermal Systems: Characterization, Integration, Stimulation,	2
Simulation, and Induced Seismicity	2
Groundwater-Surface Water Interactions: Quantifying Their Functional Relevance	1
with Measurements and Models of Water and Solute Dynamics	1
Multiphase Flow, Interfacial, and Geomechanical Processes Controlling CO2	3
Sequestration	3
Advanced Computational Modeling Paradigms for Hydrologic Systems	0
Large-Scale, Long-Term Changes in Catchment Hydrology and Water Quality	1
Sustainable Remediation of Contaminated Groundwater	0
Reactive Transport in Permeable Media	1
Advances in Geochemical and Hydrogeological Studies of CO2 Fate and Transport	3
at Geological CO2 Sequestration Sites	3
Anomalous Transport, Mixing, and Reaction in Hydrological Systems	2
Developing the Science for High-Resolution Water-Energy-Biogeochemical Cycle	1
Modeling	1
Remote Sensing, Modeling, and Ground-Based Monitoring of Groundwater	2
Resources	
Uncertainty Quantification and Parameter Estimation: Impacts on Risk and	3
Decision Making	J
Isotope Techniques for Revisiting Water Cycle in Catchments	1
Recent Advances in Modeling Water in the Coupled Earth System	1
Underground Testing, Monitoring, and Modeling in Different Formations	0
A Vision for the Future: Exploring the Value of Geophysics in Hydrology	1
Hydrogeophysics: Lab to Field Scale Characterization	1
Recent Advances in Groundwater Hydrology	0
Novel Developments in Characterization and Modeling of Physical, Chemical, and	3
Biological Processes Controlling Contaminant Transport and Remediation	

Geological CO2 Storage Monitoring From Injection Zone to Vadose Zone:	1
Characterization, Detection Methods, and Field Applications	1
Nonpoint Source Fluxes in the Vadose Zone and Groundwater	1
Modern Approaches in Hydrogeology: Conceptual and Numerical Model Advances	1
in Cross-Disciplinary Approaches	1
Recent Advances in Theoretical, Numerical, and Experimental Methods in Flow	2.
and Transport in Porous Media	2
Complexity, Falsifiability, Transparency, and Uncertainty in Environmental	1
Modeling	1
Advances in Uncertainty Assessment and Sensitivity Analysis Methods for	1
Hydrological Modeling	
Persistent Problems and Modern Approaches in Multiphase Flow and Transport in	1
Porous Media: From Pore to Laboratory and Field Scale	
Measurement, Modeling, and Management of Coastal Aquifers	2
Theoretical, Numerical, and Experimental Advances in Pore Scale Investigation of	2
Porous Media	
Impacts of Groundwater Inputs to Coastal Ecosystems	0
Understanding Process Dynamics in the Critical Zone at Different Scales	1